

CLIPPEDIMAGE= JP402036281A
PAT-NO: JP402036281A
DOCUMENT-IDENTIFIER: JP 02036281 A
TITLE: COLOR PENCIL LEAD AND CRAYON ERASABLE WITH ERASER
PUBN-DATE: February 6, 1990
INVENTOR-INFORMATION:
NAME
KUWABARA, HIDEO
ASSIGNEE-INFORMATION:
NAME
TOMBOW PENCIL CO LTD
APPL-NO: JP63185052
APPL-DATE: July 26, 1988
INT-CL (IPC): C09D013/00; C09D013/00
US-CL-CURRENT: 523/164

COUNTRY
N/A

ABSTRACT:

PURPOSE: To obtain the subject lead and crayon, having soft writing conditions, capable of wet-on-wet coating and rich in coloring properties with a sufficient breaking strength without fouling paper surfaces after writing by using a thermoplastic resin, lubricant, cellular inorganic substance-containing extender material and pigment as principal materials.

CONSTITUTION: The objective lead and crayon containing (A) a thermoplastic copolymer consisting of, e.g., PE or PP and ethylene/vinyl acetate copolymer, (B) a lubricant, such as higher fatty acid, metallic soap or paraffin wax, (C) an extender material, such as talc, titanium oxide or calcium carbonate, containing cellular inorganic substances and (D) a pigment as principal materials. Furthermore, cellular silica, diatomaceous earth powder, etc., are cited as examples of the cellular inorganic substances.

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DERWENT-ACC-NO: 1990-085886
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TITLE: Coloured lead of pencil and crayon - contain thermoplastic resin,
lubricant, pigment and porous inorganic filler

PATENT-ASSIGNEE: TOMBOW PENCIL CO [TOMBN]

PRIORITY-DATA: 1988JP-0185052 (July 26, 1988)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
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APPLICATION-DATA:

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INT-CL (IPC): C09D013/00
ABSTRACTED-PUB-NO: JP02036281A

BASIC-ABSTRACT:

A coloured pencil lead and a crayon which can be effaced with an eraser comprise thermoplastic resin, lubricant, and pigment, and filler which contains porous inorganic material.

This coloured pencil lead and crayon have a well balanced combination of soft writing touch, high tinting, strong flexural strength, and eraseability.

A representative example comprises thermoplastic resins (90 pts. wt. of polyethylene and 15pts. wt. of ethylene-vinyl acetate copolymer), lubricants (50 pts. wt. of 135 deg. F paraffin and 40 pts. wt. of stearic acid), non-porous fillers (20 pts. wt. of talc and 10 pts. wt. of TiO₂), porous filler (5 pts. wt. of porous silica) and 5 pts. wt. of pigment.

DERWENT-CLASS: A17 A84 G02

CPI-CODES: A12-D05B; G02-A04;